

# Cytometer Baseline Report

**Cytometer:** FACSCantoII  
**Cytometer Name:** FACSCantoII  
**Serial Number:** V33896201821  
**Input Device:** Carousel  
**Tube Loaded Manually:** Yes  
**Cytometer Configuration:** Euroflow 3-laser, 8-color (4-2-2)

**User:** Administrator  
**Institution:** N/A  
**Software:** BD FACSDiva 8.0.2  
**Date:** 01/20/2022 09:34 AM

## Setup Beads

**Bead Product:** CST Setup Beads **Part #:** 910859  
**Lot ID:** 32272 **Expiration Date:** 09/30/2022  
**Bead Lot Information:** Available

## Detector Settings

| Laser  | Detector | Parameter   | PMTV | New Target Value | Old Target Value | Bright Bead %Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV | Dim Bead Median Channel | Dim Bead % Robust CV |
|--------|----------|-------------|------|------------------|------------------|------------------------|-------------------------|----------------------|-------------------------|----------------------|
| Blue   | FSC      | FSC         | 535  | 125000           | 125000           | 1.24                   | 131125                  | 1.20                 | 25449                   | 1.92                 |
| Blue   | F        | SSC         | 521  | 125000           | 125000           | 2.31                   | 136482                  | 2.19                 | 61194                   | 1.87                 |
| Blue   | E        | FITC        | 484  | 13602            | 14284            | 2.14                   | 379                     | 13.48                | 57                      | 51.89                |
| Blue   | D        | PE          | 486  | 24891            | 23919            | 1.57                   | 591                     | 10.08                | 114                     | 37.07                |
| Blue   | B        | PerCP-Cy5-5 | 579  | 33972            | 31332            | 2.79                   | 969                     | 14.50                | 153                     | 40.18                |
| Blue   | A        | PE-Cy7      | 621  | 22865            | 22272            | 4.80                   | 481                     | 29.65                | 79                      | 78.17                |
| Red    | C        | APC         | 572  | 47198            | 47768            | 2.70                   | 1626                    | 11.34                | 341                     | 25.42                |
| Red    | A        | APC-Cy7     | 551  | 26454            | 25313            | 3.04                   | 750                     | 12.05                | 139                     | 35.11                |
| Violet | B        | V450        | 450  | 6737             | 7085             | 3.34                   | 466                     | 10.99                | 80                      | 46.21                |
| Violet | A        | V500        | 469  | 29317            | 26969            | 2.92                   | 1000                    | 7.93                 | 118                     | 28.86                |

## Detector Settings (Continued)

| Laser  | Detector | Parameter   | Linearity Min Channel | Linearity Max Channel | Slope  | Intercept | Electronic Noise Robust SD | Qr     | Br   |
|--------|----------|-------------|-----------------------|-----------------------|--------|-----------|----------------------------|--------|------|
| Blue   | FSC      | FSC         | N/A                   | N/A                   | 0.0039 | 3.0       | N/A                        | N/A    | N/A  |
| Blue   | F        | SSC         | N/A                   | N/A                   | 6.8526 | -13.5     | N/A                        | N/A    | N/A  |
| Blue   | E        | FITC        | 61                    | 245294                | 7.3291 | -15.5     | 23.4                       | 0.0413 | 47   |
| Blue   | D        | PE          | 44                    | 246124                | 7.2402 | -15.1     | 23.4                       | 0.4307 | 282  |
| Blue   | B        | PerCP-Cy5-5 | 88                    | 239418                | 7.3084 | -15.7     | 24.4                       | 0.0210 | 72   |
| Blue   | A        | PE-Cy7      | 201                   | 235653                | 7.4373 | -16.4     | 23.3                       | 0.0234 | 2    |
| Red    | C        | APC         | 91                    | 242016                | 7.3958 | -15.7     | 19.9                       | 0.0291 | 182  |
| Red    | A        | APC-Cy7     | 69                    | 236128                | 7.4274 | -15.9     | 19.9                       | 0.0068 | 1696 |
| Violet | B        | V450        | 183                   | 242934                | 7.3908 | -15.8     | 15.6                       | 0.0692 | 2879 |
| Violet | A        | V500        | 93                    | 245674                | 7.5765 | -15.8     | 17.9                       | 0.0280 | 737  |

## Specifications

**Violet Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Blue Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)  
**Red Laser Primary Channel Bright Bead %Robust CV:** 6.00 (Recommended)

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## Laser Settings

| Laser  | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|--------|------------|------------------|--------------|-------------------------|------------------------|---------------------------------|---------------------|
| Violet | 59.55      | 47.64 - 71.46    | N/A          | N/A                     | -31.67                 | -31.47                          | 1.05                |
| Blue   | 20.34      | 16.28 - 24.42    | 1.29         | 1.03 - 1.55             | 0.00                   | 0.00                            | 1.44                |
| Red    | 15.41      | 13.90 - 20.86    | N/A          | N/A                     | 29.81                  | 30.03                           | 1.22                |

Window Extension: 7.00  
FSC Area Scaling Factor: 0.93

## Threshold

Threshold (FSC): 11996

## Fluidics

FACSFlow Pressure: 3.90      Sample Pressure: 3.70  
Spec.: 3.80 - 4.00

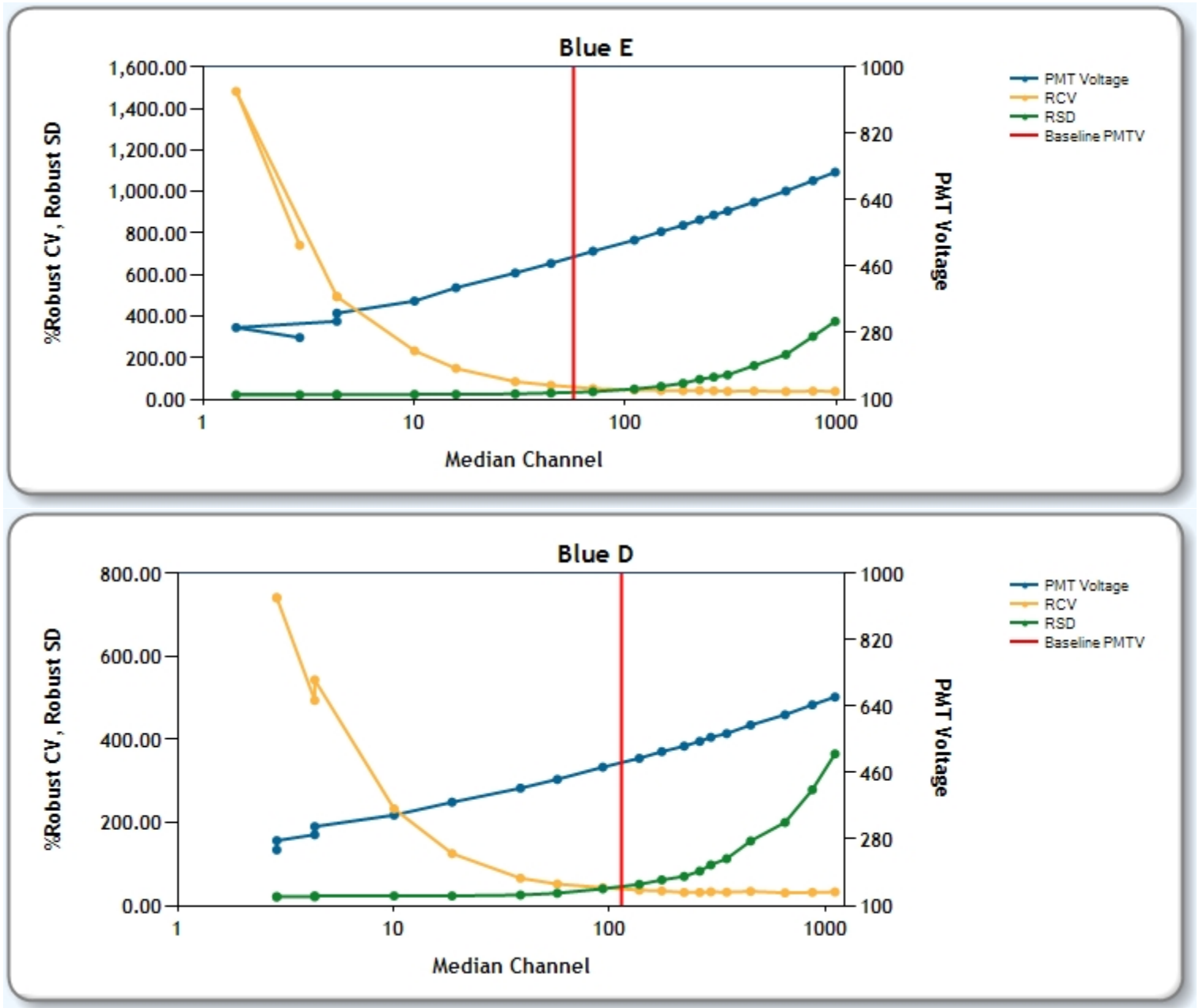
Comments

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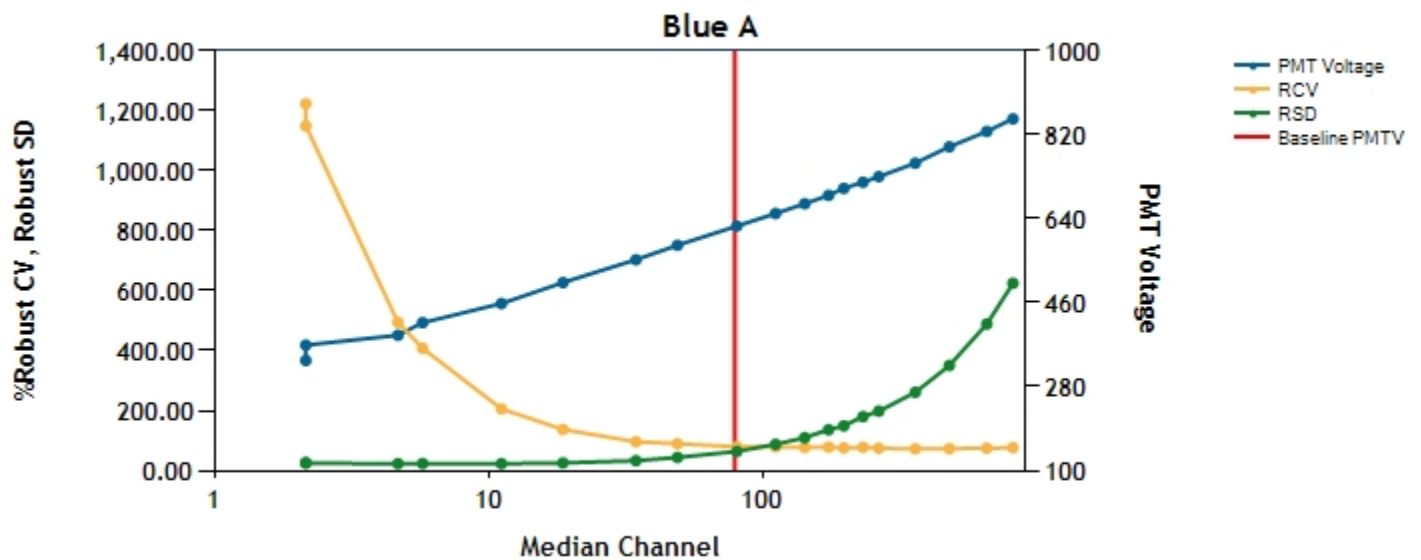
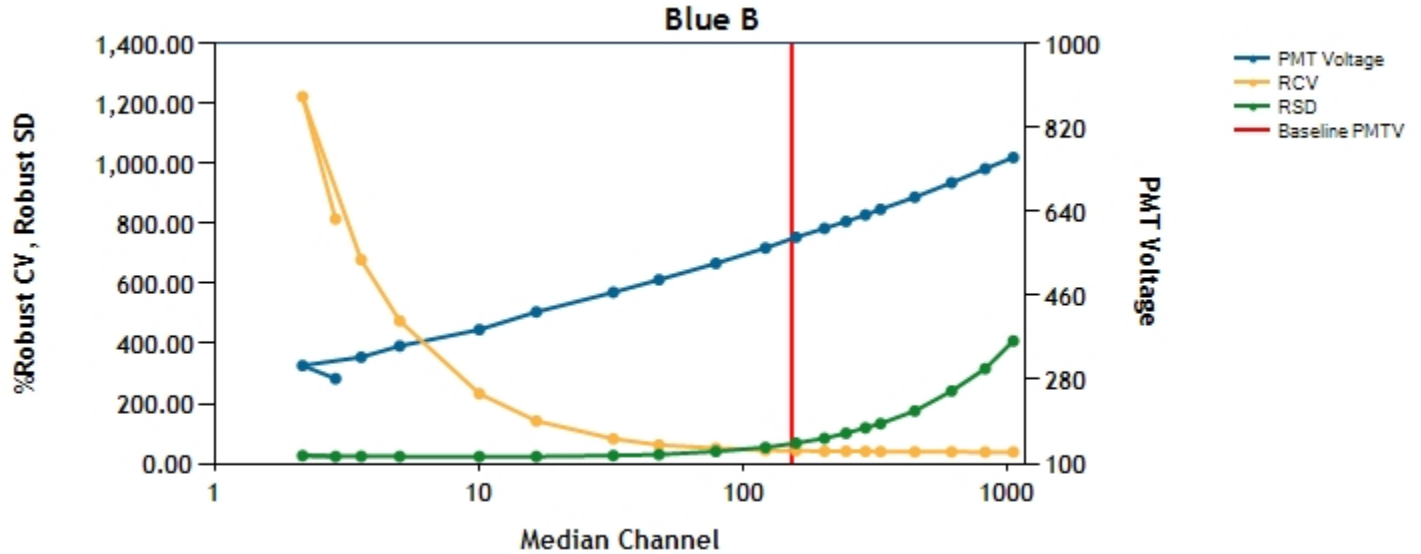
## PMTV Optimization Results



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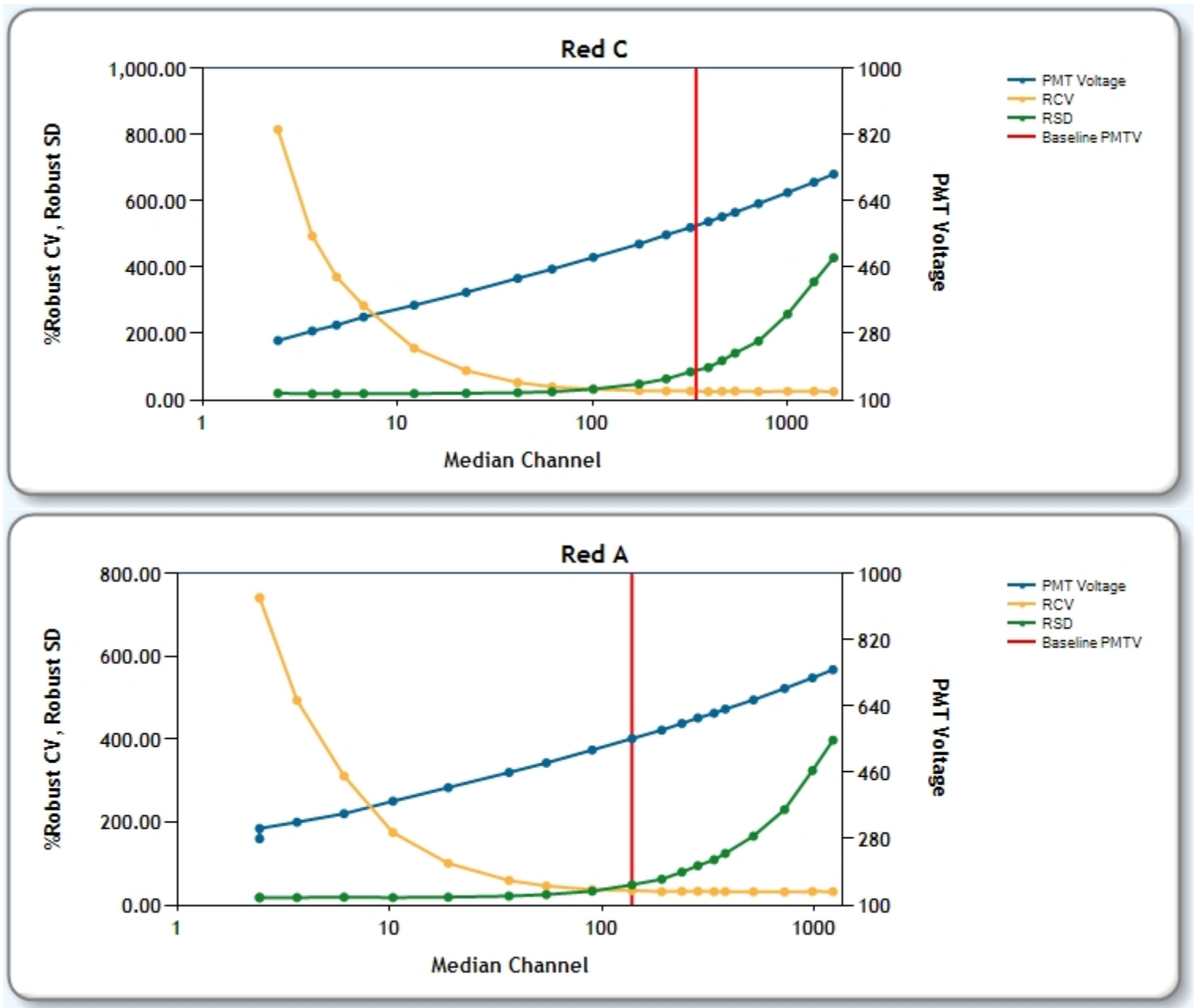
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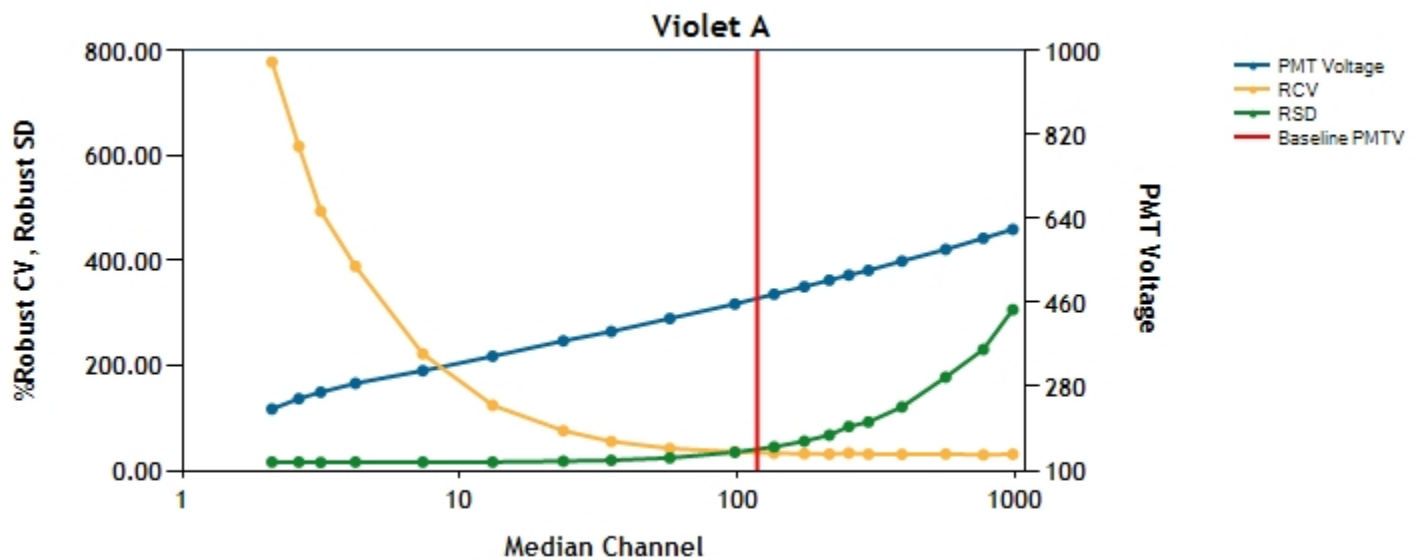
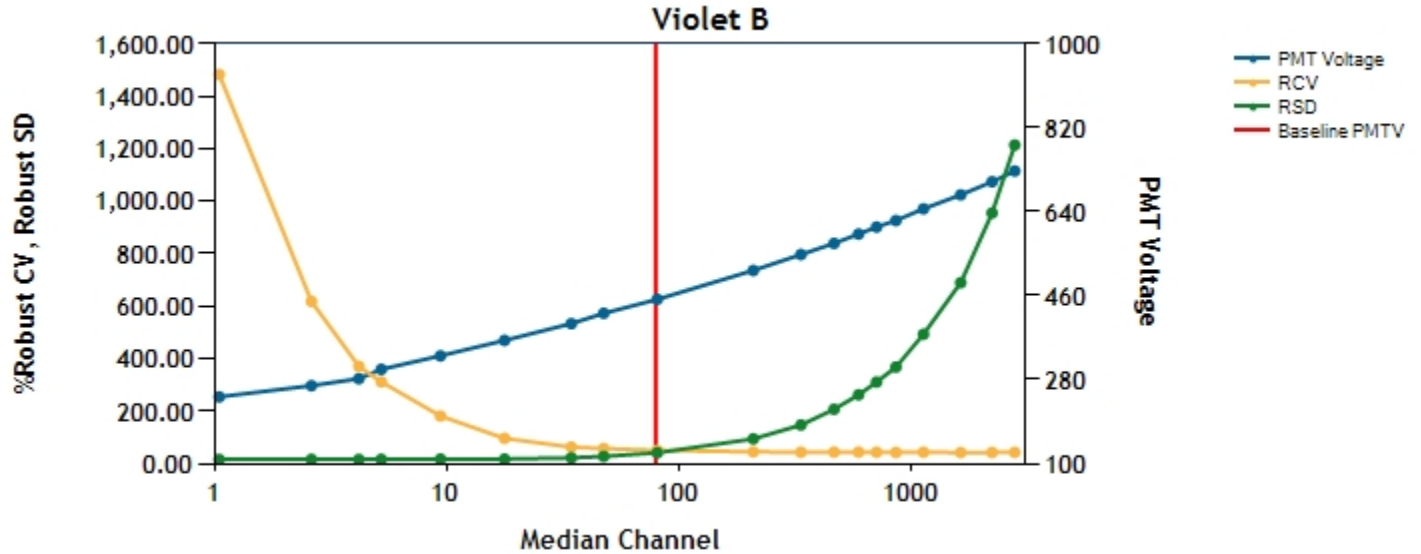
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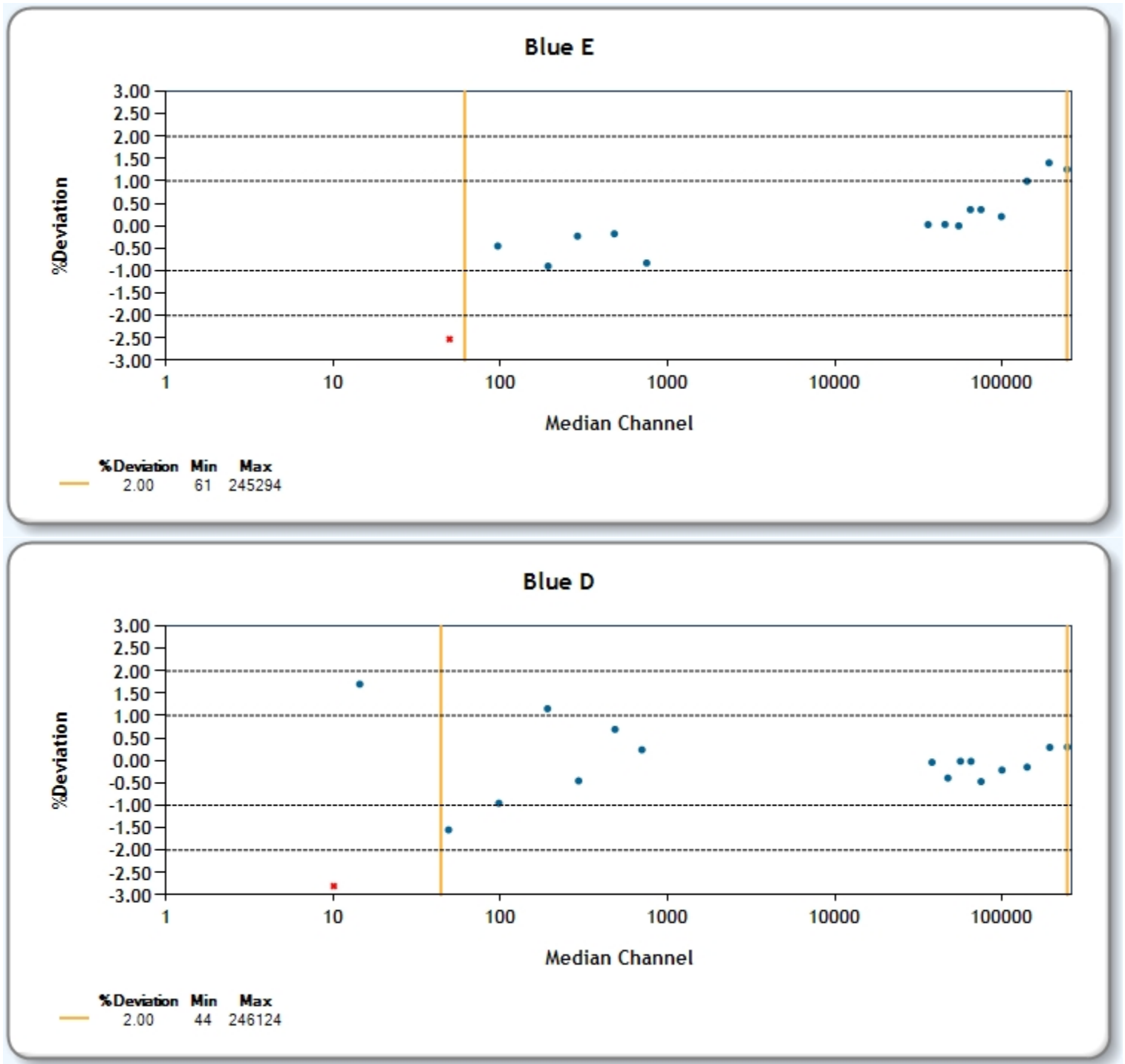


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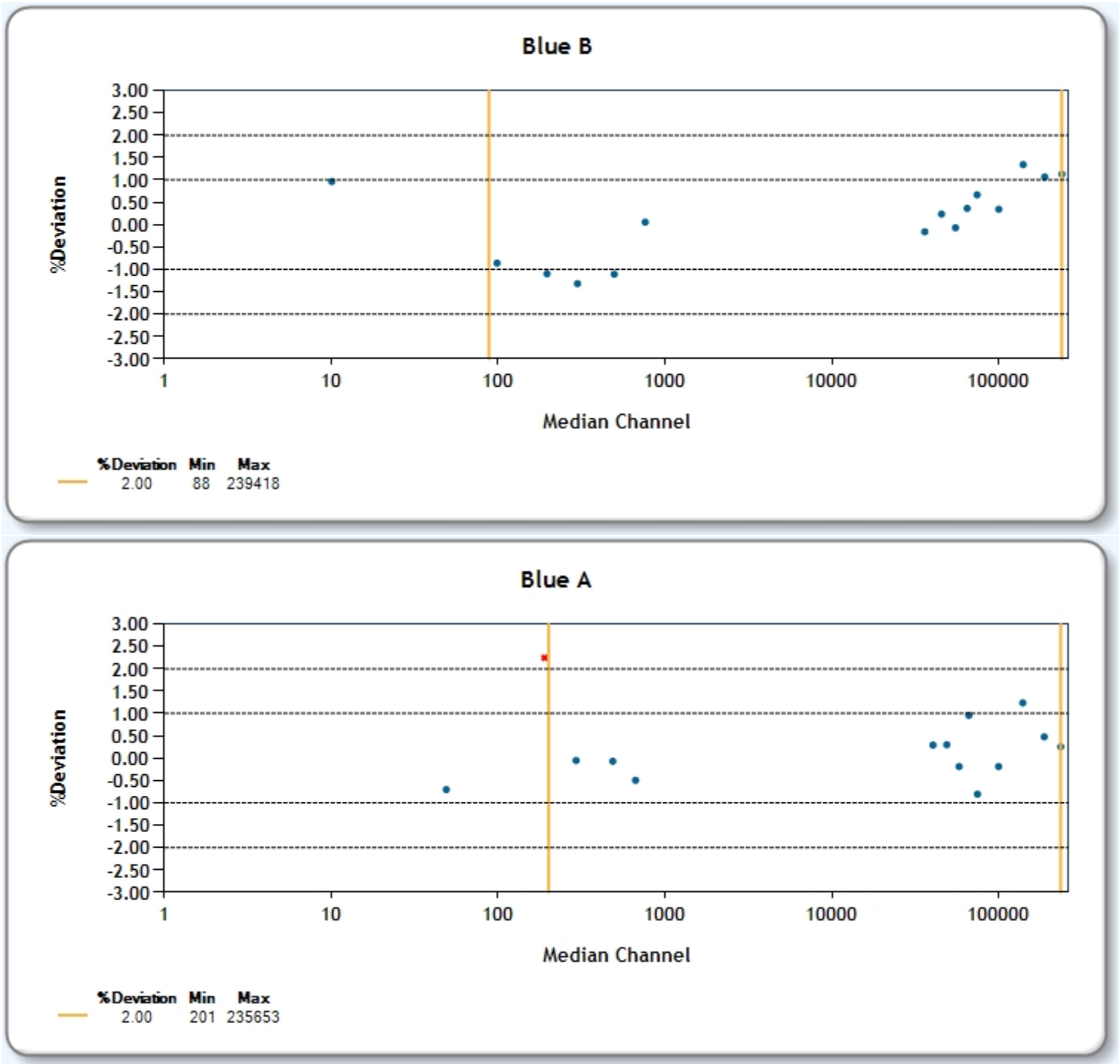
## Linearity Results



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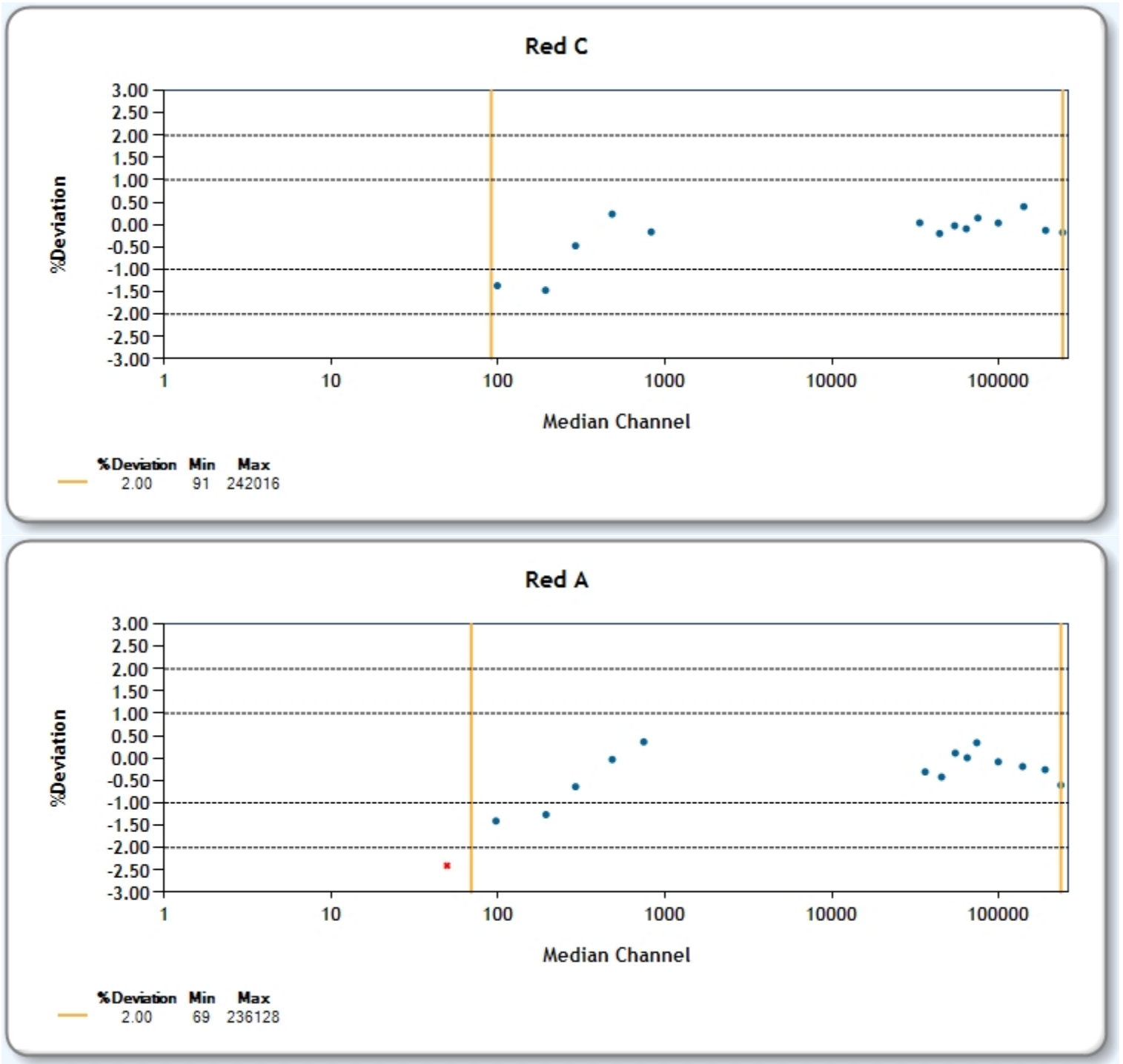
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